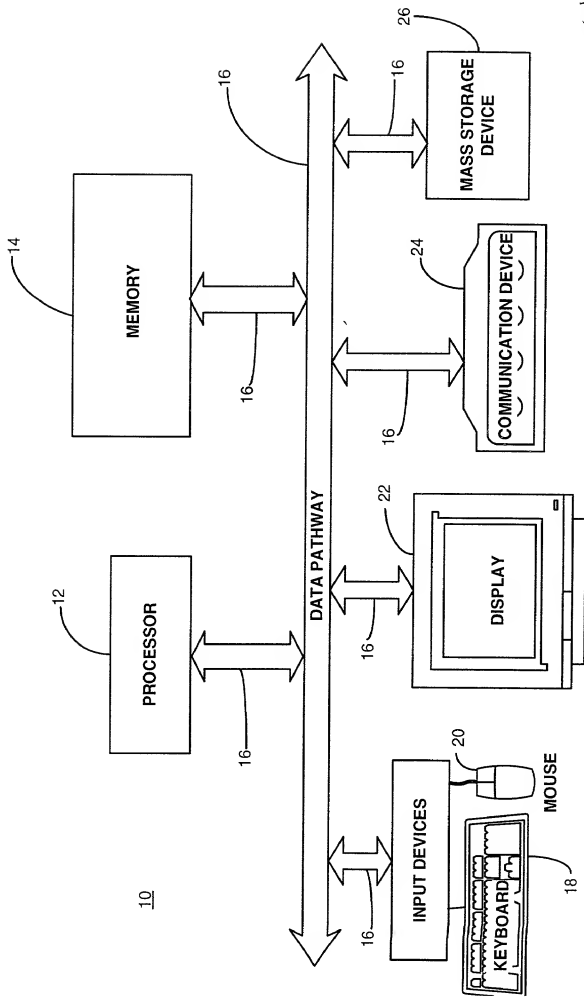


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Fig. 1



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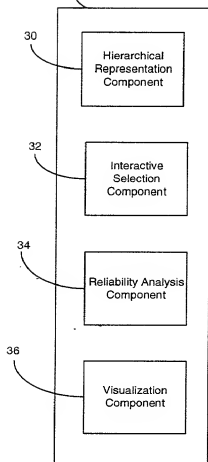


Fig. 2

Data Element 1
 Level = 1
 Value = A
 pointer up = NULL
 pointer down = 3
 pointer left = NULL
 pointer right = 2

Data Element 2
 Level = 1
 Value = B
 pointer up = NULL
 pointer down = 5
 pointer left = 1
 pointer right = NULL

Data Element 3
 Level = 2
 Value = a
 pointer up = 1
 pointer down = 7
 pointer left = NULL
 pointer right = 4

Data Element 4
 Level = 2
 Value = b
 pointer up = 1
 pointer down = 9
 pointer left = 3
 pointer right = NULL

Data Element 5
 Level = 2
 Value = c
 pointer up = 2
 pointer down = 10
 pointer left = NULL
 pointer right = 6

Data Element 6
 Level = 2
 Value = d
 pointer up = 2
 pointer down = 11
 pointer left = 5
 pointer right = NULL

Data Element 7
 Level = 3
 Value = U
 pointer up = 3
 pointer down = NULL
 pointer left = NULL
 pointer right = 8

Data Element 8
 Level = 3
 Value = V
 pointer up = 3
 pointer down = NULL
 pointer left = 7
 pointer right = NULL

Data Element 9
 Level = 3
 Value = W
 pointer up = 4
 pointer down = NULL
 pointer left = NULL
 pointer right = NULL

Data Element 10
 Level = 3
 Value = X
 pointer up = 5
 pointer down = NULL
 pointer left = NULL
 pointer right = NULL

Data Element 11
 Level = 3
 Value = Y
 pointer up = 6
 pointer down = NULL
 pointer left = NULL
 pointer right = 12

Data Element 12
 Level = 3
 Value = Z
 pointer up = 6
 pointer down
 pointer left = 11
 pointer right = NULL

Fig. 3

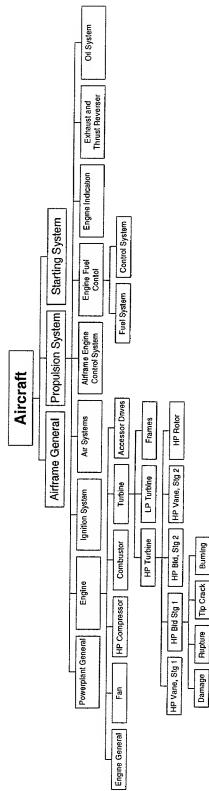


Fig. 5

Moving Right/Left

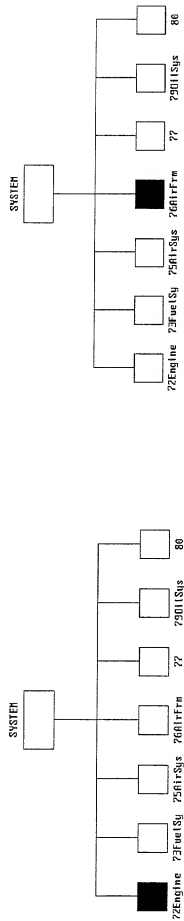


Fig. 6a

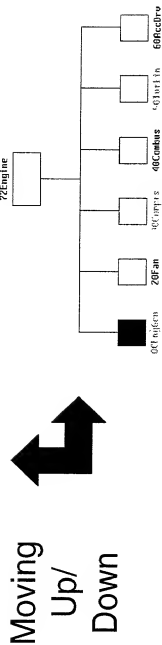


Fig. 6b

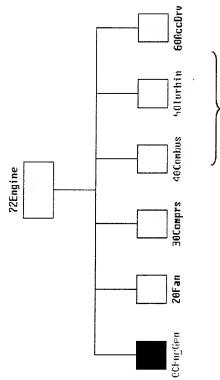


Fig. 6d

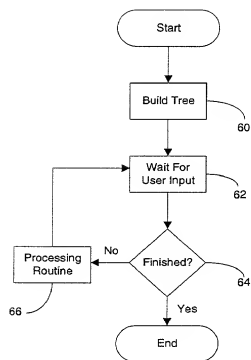


Fig. 7

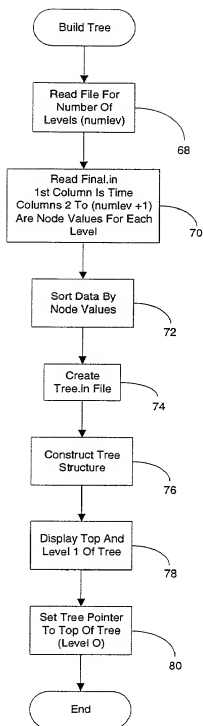


Fig. 8

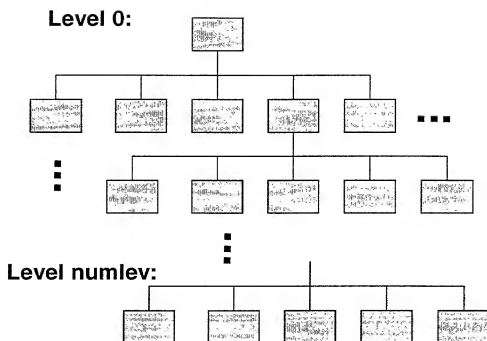


Fig. 9

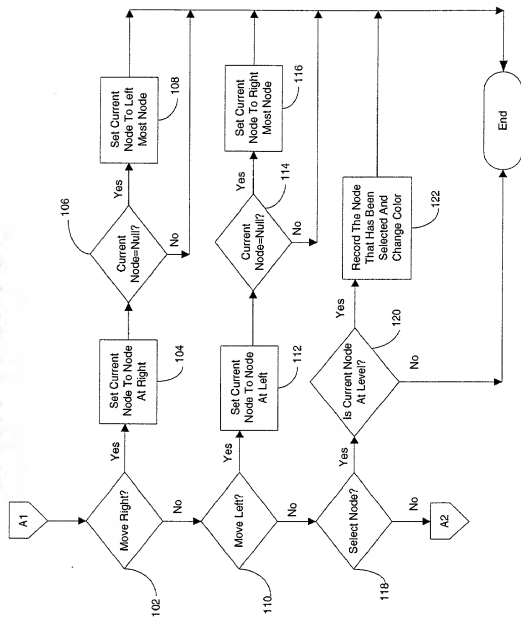


Fig. 10b

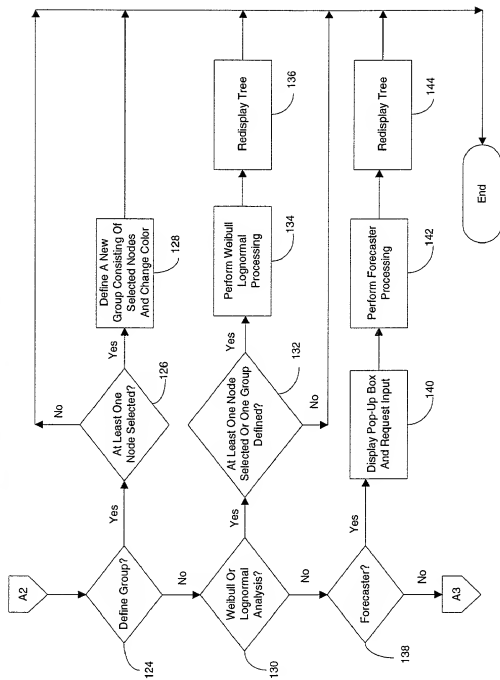


Fig. 10c

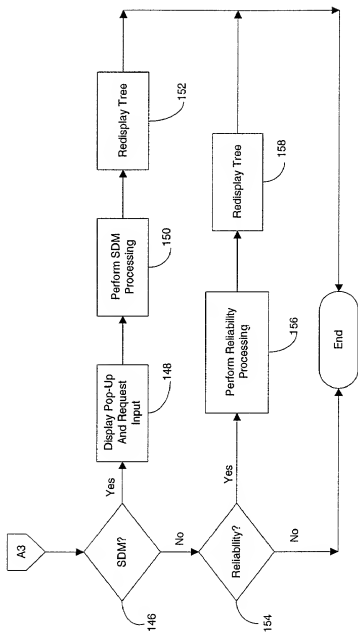


Fig. 10d


```

graph TD
    1002([Weibull/Lognormal Processing]) --> 1004{Any Selected Nodes Left To Be Processed}
    1004 -- No --> 1008{A4}
    1004 -- Yes --> 1012[Choose Next Selected Node]
    1012 --> 1014[Determine Beginning And Ending Records For Node]
    1014 --> 1016[Perform MLE Analysis]
    1016 --> 1018[Perform Likelihood Contour Analysis]
    1018 --> 1004
  
```

Fig. 11a

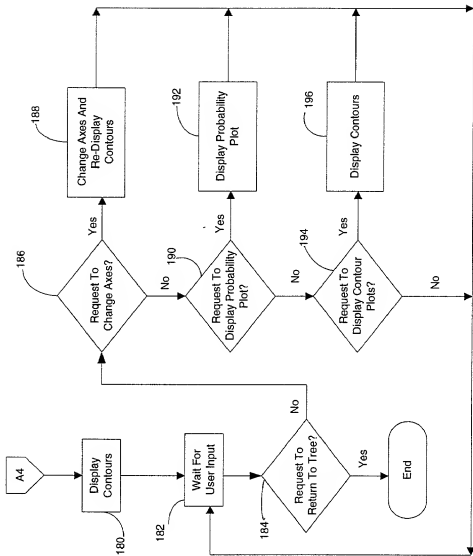


Fig. 11b

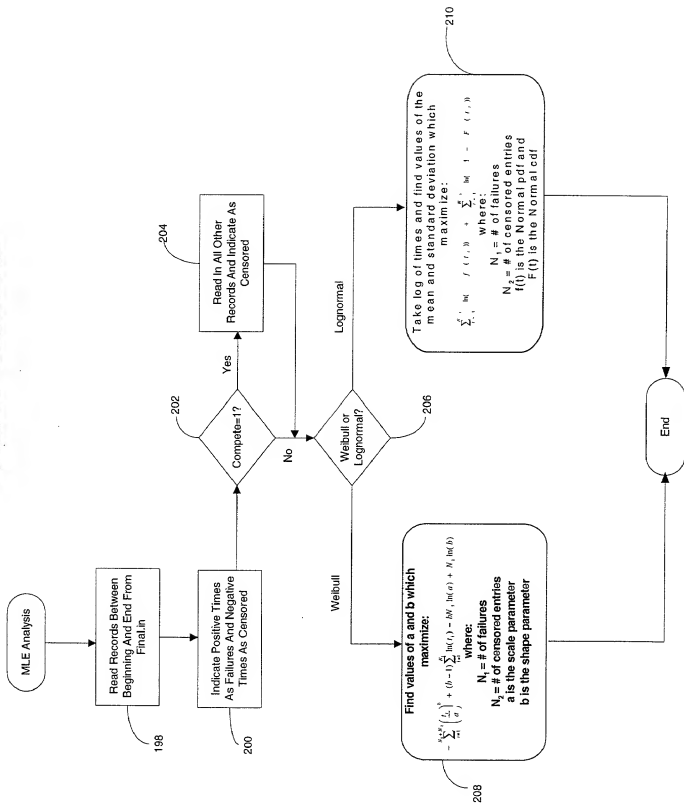


Fig. 12

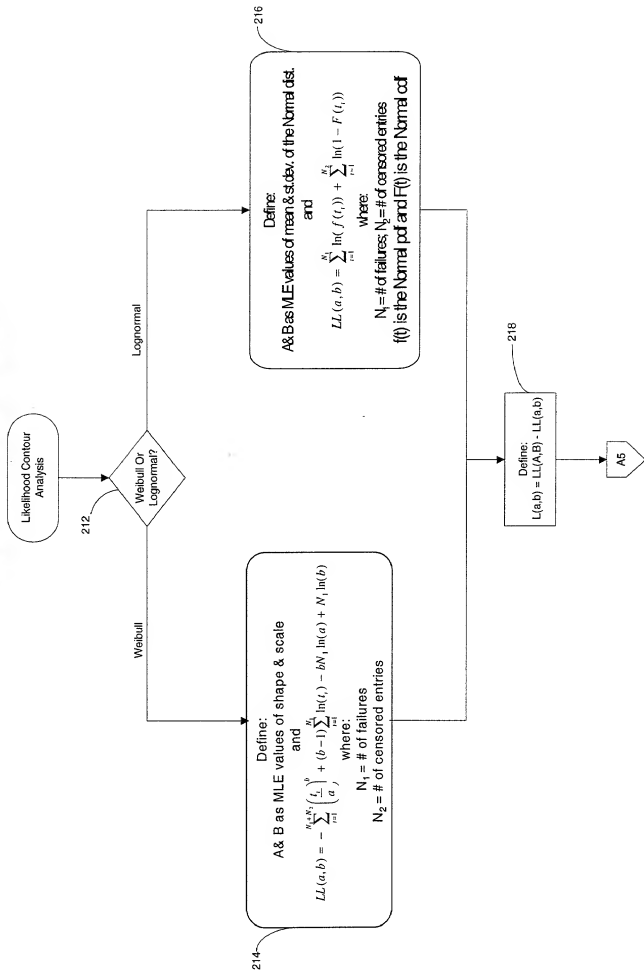


Fig. 13a

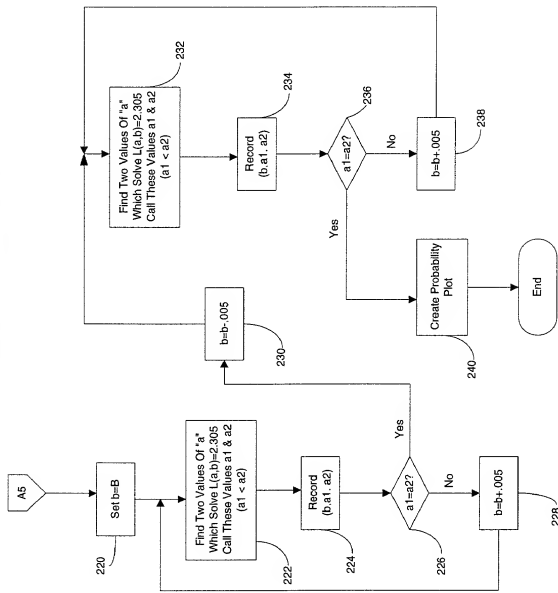


Fig. 13b

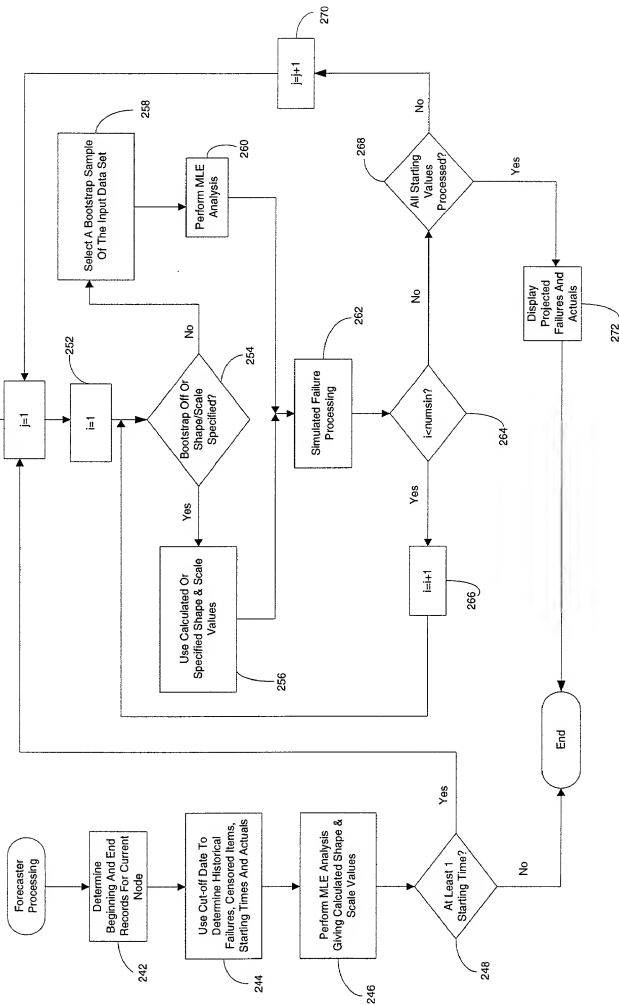


Fig. 14

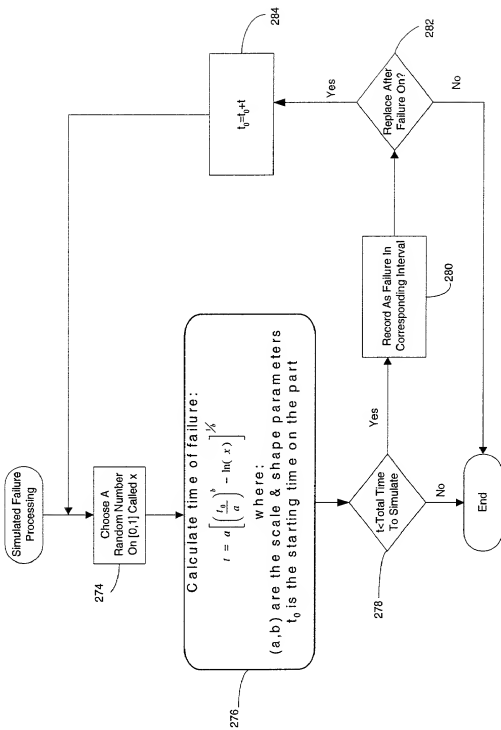


Fig. 15

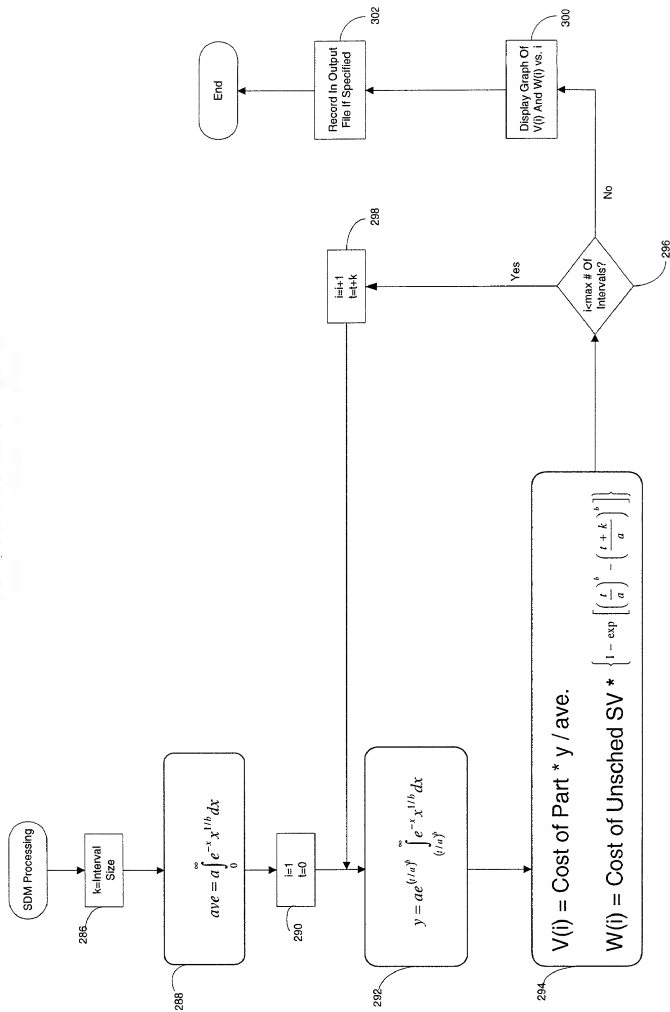


Fig. 16

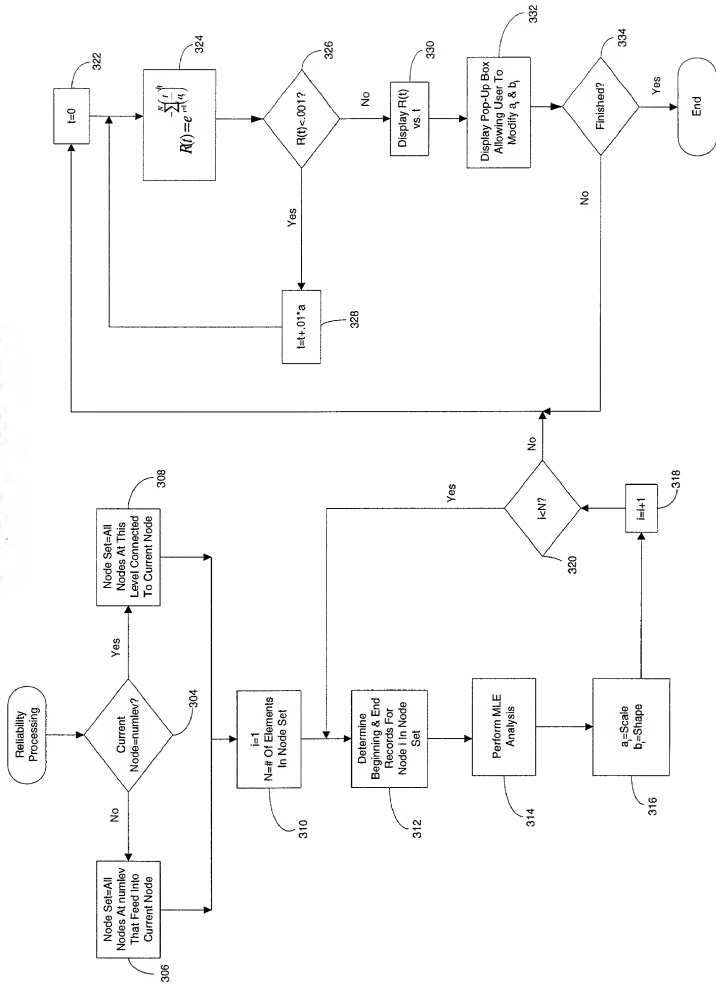


Fig. 17

Likelihood Contour Plot

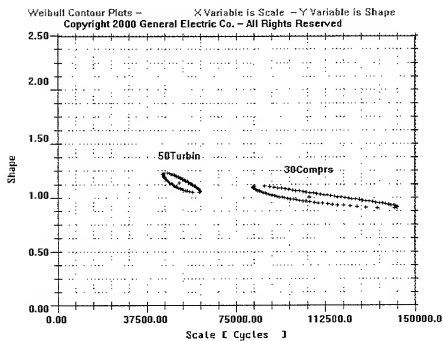


Fig. 18a

Probability Plot

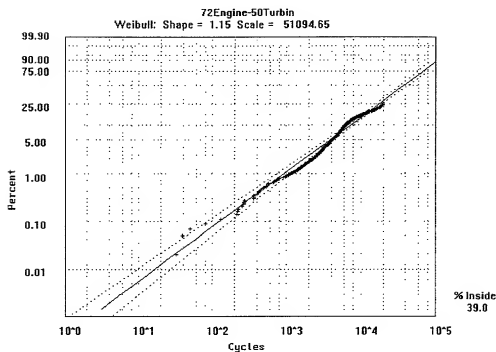


Fig. 18b

Strategically Driven Maintenance

Shape: 9.70

Scale: 3192.4

Interval Length: 90

Cost of Part: 1000

Cost of Unscheduled Sv: 5000

Output File (optional):

OK Cancel

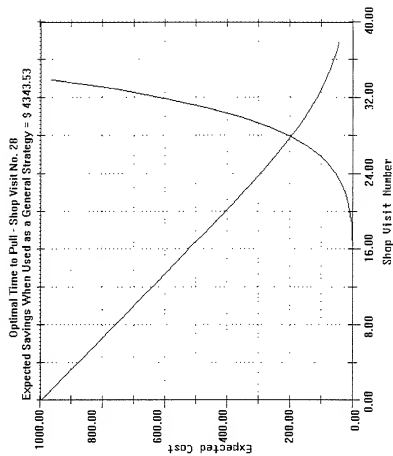
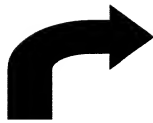
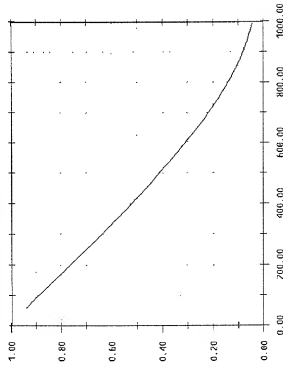


Fig. 18c

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Probability of Survival



Reliability Data

OK Cancel

Part Number	Steps	Scale	Redundancy
0	1.20	2000.00	1
1	4.60	3000.00	1
2	2.20	1000.00	2
3	4.50	4000.00	2
4	1.00	2500.00	4
5	1.20	2000.00	1
6	4.60	3000.00	1
7	2.50	1000.00	6
8	4.50	4000.00	1
9	1.00	2500.00	2
10	1.20	2000.00	1
11	4.50	3000.00	1
12	2.50	1000.00	2
13	4.60	4000.00	2

Change Values

Steps: 2.50 Redundancy: 6

Scale: 1000.00

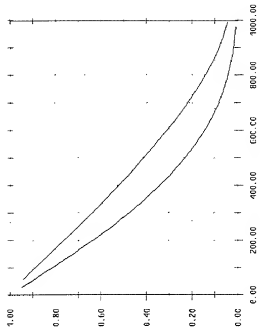


Fig. 18d

Forecast Input

Number of Intervals OK Cancel

Interval Size

Number of Simulations

☒ Cumulative?

☐ Replace After Failure?

☒ Record Fractional Events?

☐ Turn Off Bootstrap?

Cut Off Date

Optional Parameters:

Output File

Input File Whatif Analysis

Shape

Scale

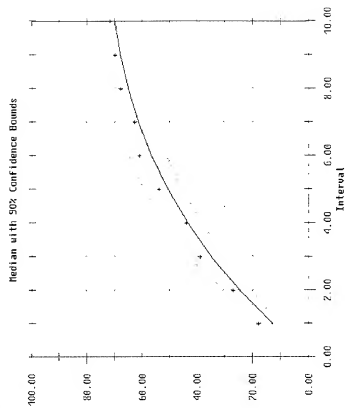
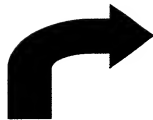
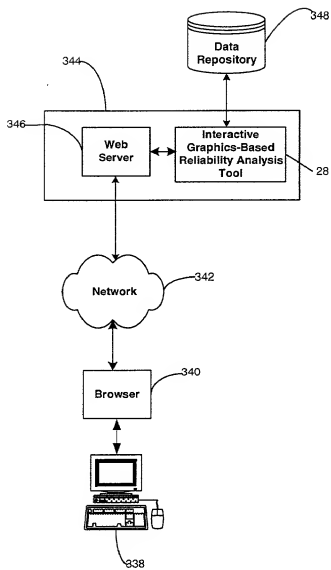


Fig. 18e



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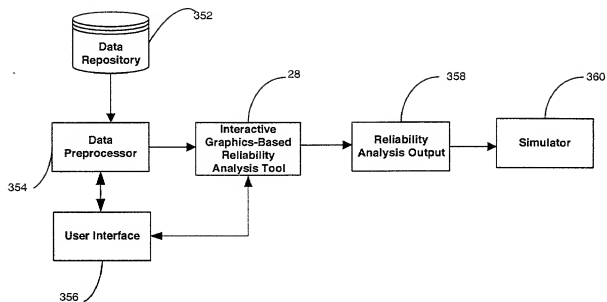


Fig. 20

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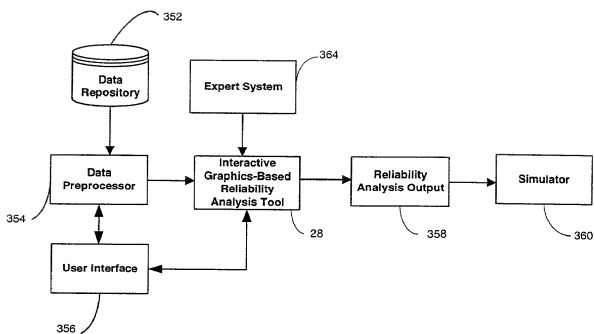


Fig. 21